

Approved For Release 2008/11/26 : CIA-RDP80T00246A001900110001-8

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PREPARED AND DISSEMINATED BY <b>CENTRAL INTELLIGENCE AGENCY</b>			
COUNTRY <b>Hungary</b>		DATE DISTRIBUTED <b>28 August 1957</b>	
SUBJECT <b>Design of a Lock to be Built in a Canal Near Tiszafured</b>		NO. OF PAGES <b>2</b>	NO. OF ENCLS.
		SUPPLEMENT TO REPORT #	
THIS IS UNEVALUATED INFORMATION			
<p>a lock to be built in 1957 in a canal in the vicinity of Tiszafured (47° 37' N, 20° 45' E).</p> <p>iron ore was to be transported through the canal. The canal was to be enlarged a lock for the enlarged waterway. The lock was to accommodate 800-ton barges, to be towed by tugboats, and was to be 20 to 30 meters in length, three meters in depth, and six to eight meters in width. There were two gates, one front and one back</p> <p>design for the lock served as a prototype.</p> <p>specifications for the machinery (four independent motors on each side), the two pressure points where the shaft of the machinery was to be connected.</p> <p>Designed for reinforced concrete 200 kilograms per square centimeter. The mixture of concrete was 36 (gravel): 24 (sand): 12 (cement), and the cement was portland with a special chemical analysis. The soil in the area under consideration consisted of sand and clay, and the design had to meet these local conditions. Wooden forms were to be built at the site and left there after the cement had been poured. No caissons were laid during the excavations for the canal.</p>			
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3. The concrete reinforcing bars were designed for a double purpose:

a. When the lock was empty, the pressure was from the outside.

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b. When the lock was full, the pressure was from the inside.

The reinforcing bars were of the following specifications:

a. Vertical (inside) - 8 mm

b. Vertical (outside) - 8 mm

c. Two horizontal 12 mm-crossbars (one at the top, one at the bottom) were spaced every 20 cm in the middle. Then the distance was graduated until the bars were spaced 25 cm apart below the two vertical side walls. In addition, two vertical 12mm-bars were placed every 25 cm c/c.

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